

CALIBRATION PROCESS AND APPARATUS FOR AN ELECTROCHEMICAL CELL SYSTEM

Abstract of Disclosure

In one embodiment, A hydrogen gas detector calibration system comprises: a mixing tube; a first conduit in fluid communication with a hydrogen-free gas, wherein the first conduit comprises a first orifice in fluid communication with the mixing tube; an electrolysis cell for generating hydrogen gas; a second conduit in fluid communication with the hydrogen gas, wherein the second conduit comprises a second orifice in fluid communication with the mixing tube; and the hydrogen gas detector in fluid communication with the mixing tube. In one embodiment, the process for calibrating a hydrogen gas detector comprises: introducing hydrogen-free gas to the hydrogen detector, wherein the hydrogen gas detector generates a first signal; introducing a known quantity of hydrogen gas from a hydrogen/water separator to the hydrogen gas detector, wherein the hydrogen gas detector generates a second signal corresponding to a concentration hydrogen; and calibrating the hydrogen gas detector based upon the first and second signals.

